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FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. APPLICATION NO. CONFIRMATION NO. 09/981,275 10/17/2001 Robert B. Haines 10013717-1 6376 7590 04/12/2006 **EXAMINER** HEWLETT-PACKARD COMPANY MURPHY, DILLON J Intellectual Property Administration ART UNIT PAPER NUMBER P.O. Box 272400 Fort Collins, CA 80527-2400 2625

DATE MAILED: 04/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	- 1	
	Application No.	Applicant(s)
Office Action Summary	09/981,275	HAINES, ROBERT B.
	Examiner	Art Unit
	Dillon J. Murphy	2625
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with	1 the correspondence address
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory perior Failure to reply within the set or extended period for reply will, by status Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC, 136(a). In no event, however, may a reput will apply and will expire SIX (6) MONT to the cause the application to become ABA	ATION.  bly be timely filed  HS from the mailing date of this communication.  NDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 27	March <u>2006</u> .	
•	is action is non-final.	
3) Since this application is in condition for allow	ance except for formal matte	rs, prosecution as to the merits is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.
Disposition of Claims		
4) Claim(s) 1,2,5-8,11-14,17 and 18 is/are pend	ling in the application.	
4a) Of the above claim(s) is/are withdr		
5) Claim(s) is/are allowed.		
6) Claim(s) 1,2,5-8,11-14,17 and 18 is/are reject	cted.	•
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and	or election requirement.	
Application Papers		
9) The specification is objected to by the Examin	ner.	
10)⊠ The drawing(s) filed on 27 March 2006 is/are		cted to by the Examiner.
Applicant may not request that any objection to the		
Replacement drawing sheet(s) including the corre	ection is required if the drawing(s	i) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig	an priority under 35 H.S.C. &	119(a)-(d) or (f)
a) All b) Some * c) None of:	gir priority under 35 0.5.0. §	113(a)-(d) 01 (l).
1. Certified copies of the priority docume	nts have been received	
2. Certified copies of the priority docume		polication No.
3. Copies of the certified copies of the pr		
application from the International Bure		
* See the attached detailed Office action for a li	, , , , , , , , , , , , , , , , , , , ,	eceived.
	·	
Attachment(s)		•
1) Notice of References Cited (PTO-892)	4) $\prod$ Interview Su	ımmary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)	/Mail Date
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0	5) Notice of Inf	formal Patent Application (PTO-152)

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#### **DETAILED ACTION**

• This action is responsive to the after final amendment filed on March 27, 2006.

- Claims 1, 2, 5-8, 11-14, 17, and 18 are pending. Claim 6 is amended.
- Replacement figures 6, 7, and 9 received.
- Amendments to the drawings are acknowledged and accepted.
- Applicant's request for reconsideration of the finality of the rejection of the last
   Office action is persuasive and, therefore, the finality of that action is withdrawn.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 5-7, 11-13, 17, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Biegelsen et al. (US 6335084) in view of Ueda et al. (US 5801722) and further in view of Meunier et al. (US 6582138), hereafter referred to as Biegelsen, Ueda, and Meuiner.

Regarding claim 1, Biegelsen teaches a method for sensing data from a sheet of print media, the method comprising:

Sensing a media marking on an edge of a sheet of print media if the media marking is imprinted on the edge of the sheet (Biegelsen, col 2, In 7-19, edge has

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indicia arranged to form a code that identifies sheet characteristics, and code reader reads indicia. See fig 1 and 2 for code imprinted on edge of sheet), the media marking comprising media parameter information that corresponds to the sheet of print media (Biegelsen, col 5, ln 9-12, code reader reads mark and determines media type); and

Configuring an imaging device based on the media parameter information to form an image on the sheet of print media (Biegelsen, col 6, ln 28-38, image recording parameter device reads media parameters and configures imaging device based on the type of image recording media being used).

Biegelsen does not disclose expressly a method for sensing data from a sheet of print media further comprising sensing a media marking on a face of a sheet of print media if the media marking is imprinted on the face of the sheet. Ueda, however, teaches a method for sensing data from a sheet comprising sensing a media marking on a face of a sheet of print media if the media marking is imprinted on the face of the sheet (Ueda, col 8, In 48-58, face of paper may be printed with a mark, e.g. a barcode or invisible mark, to correspond to media parameters. Examples of parameters are given in col 8, In 8-21. Figure 6, photosensor #60 and #64 oriented perpendicular to transport path #6, therefore mark is on face of media). Additionally, Ueda teaches the media marking comprises media parameter information that corresponds to the sheet of print media (Ueda, col 8, In 48-49, wherein mark corresponds to kind of paper), and Ueda teaches the method further comprises configuring an imaging device based on the media parameter information to for an image on the sheet of print media (Ueda, col 8, In 54-58, wherein printer is configured based on detected media parameter).

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Biegelsen and Ueda are combinable because they are from a similar field of endeavor of encoding media parameters on a sheet of print media and configuring the print device based upon sensed parameters. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the method of Ueda comprising sensing a media marking on a face of a sheet of print media, the media marking comprising media parameter information corresponding to the sheet of print media, and configuring an imaging device based upon the media parameter information to form an image with the method of Biegelsen comprising sensing a media marking on an edge of a sheet of print media, the media marking comprising media parameter information corresponding to the sheet of print media, and configuring an imaging device based upon the media parameter information to form an image.

The motivation for doing so was suggested by Meunier, who teaches the encoding of information on a print media on the face of a sheet and on an edge of a sheet. In figure 12 of Meunier, media information is shown printed on the face of print media by the Dataglyph #212, and information is shown printed on the edge of print media by the Edge Identifier #202 (see figure 1 for examples #12 and #14 of edge identifiers). The edge identifiers comprise information regarding the parameters of the media (Meunier, col 12, ln 25-39). The information in the edge identifier is combined with a portion of the document text, and further processed to form a Dataglyph #212. The dataglyph, including media parameters, is recorded on the face of the media (Meunier, col 13, ln 9-25). Both media markings may be sensed (Meunier, col 13, ln 50-60), and the printer associates the media with the image to be printed on the media

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(Meunier, col 3, In 7-13). Therefore, it would have been obvious to combine Ueda as per the teaching of Meunier with Biegelsen to obtain the invention as specified in claim 1.

Regarding claim 5, which depends from claim 1, the combination of Biegelsen, Ueda, and Meunier teaches a method for sensing data from a sheet of print media, the method further comprising:

Determining whether to pull the sheet of print media from a particular media supply bin based on the media parameter information (Biegelsen, col 6, ln 7-27, in image recording apparatus #210 of figure 10, four different trays are loaded with four different types of media: transparencies, company letterhead, standard paper with a three-hole pattern, and cardstock. Upon print request, imaging device determines type of image recording media is in each tray and prints without having to manually change types of recording media or perform any manual collation).

Regarding claim 6, which depends from claim 1, the combination of Biegelsen, Ueda, and Meunier teaches a method for sensing data from a sheet of print media, the method further comprising:

Determining if an appropriate print media is available in the imaging device to perform a particular imaging job based on the media parameter information (Biegelsen, col 5, In 9-17, device determines whether image recording media in tray is identified as the selected type of image recording media. If identified media is correct type, media is pulled from tray and image is formed on the recording media).

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Claim 7 recites identical features as claim 1 except claim 7 is a computer readable medium claim. Thus, arguments similar to that presented above for claim 1 are equally applicable to claim 7. Applicant's attention is further invited to Ueda, fig 7, Non-volatile RAM #12 comprises Resolution Memory #12a and Paper Characteristic Memory #14a, coupled with CPU #11 and Recording Paper Characteristic Detector #16 for sensing media parameters and acting appropriately. Storing printer parameters by CPU #11 in RAM #12 is indicative of computer-executable instructions, especially when connected with an external CPU #50 in an external device such as a personal computer, col 4, In 35-37 of Ueda.

Regarding claim 11, which depends from claim 7, claim 11 recites identical features as claim 5 except claim 11 is a computer readable medium claim. Thus, arguments similar to that presented above for claim 5 are equally applicable to claim 11.

Regarding claim 12, which depends from claim 7, claim 12 recites identical features as claim 6 except claim 12 is a computer readable medium claim. Thus, arguments similar to that presented above for claim 7 are equally applicable to claim 12.

Regarding claim 13, the combination of Biegelsen, Ueda, and Meunier further teaches an imaging device (Biegelsen, Figure 8, #110 image recording apparatus illustrated as a photocopier, but can also be a printer, a facsimile machine, and offset print press, col 4, In 54-59, and Ueda, figure 7, #1, printer) comprising:

A memory comprising computer-executable instructions for sensing data from a sheet of print media, and

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A processor that is operatively coupled to the memory (Ueda, Figure 7, Non-volatile RAM #12 comprises Resolution Memory #12a and Paper Characteristic Memory #14a, coupled with CPU #11 and Recording Paper Characteristic Detector #16 for sensing media parameters and acting appropriately. Storing printer parameters by CPU #11 in RAM #12 is indicative of computer-executable instructions, especially when connected with an external CPU #50 in an external device such as a personal computer, col 4, ln 35-37), the processor being configured to fetch and execute the computer-executable instructions from the memory, the computer-executable instructions comprising instructions for:

Sensing a media marking on a face of a sheet of print media if the media marking is imprinted on the face of the sheet (Ueda, col 8, In 48-58, face of media may be printed with a mark, e.g. a barcode or invisible mark, to correspond to media parameters. Examples of parameters are given in col 8, In 8-21. Figure 6, photosensor #60 and #64 oriented perpendicular to transport path #6, therefore mark is on face of media) and sensing a media marking on an edge of a sheet of print media if the media marking is imprinted on the edge of the sheet (Biegelsen, col 2, In 7-19, edge has indicia arranged to form a code that identifies sheet characteristics, and code reader reads indicia. See fig 1 and 2 for code imprinted on edge of sheet), the media marking comprising media parameter information that corresponds to the sheet of print media (Biegelsen, col 5, In 9-12, code reader reads mark and determines media type. Also see Ueda, col 8, In 48-49, wherein mark corresponds to kind of paper); and

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Configuring an imaging device based on the media parameter information to form an image on the sheet of print media (Biegelsen, col 6, ln 28-38, image recording parameter device reads media parameters and configures imaging device based on the type of image recording media being used. Also see Ueda, col 8, ln 54-58, wherein printer is configured based on detected media parameter).

Regarding claim 17, which depends from claim 13, the combination of Biegelsen, Ueda, and Meunier further teaches an imaging device comprising a memory and a processor for executing a program for:

Determining whether to pull the sheet of print media from a particular one bin of a plurality of media supply bins based on the media parameter information (Biegelsen, col 6, In 7-27, in image recording apparatus #210 of figure 10, four different trays are loaded with four different types of media: transparencies, company letterhead, standard paper with a three-hole pattern, and cardstock. Upon print request, imaging device determines type of image recording media is in each tray and prints without having to manually change types of recording media or perform any manual collation).

Regarding claim 18, which depends from claim 13, the combination of Biegelsen, Ueda, and Meunier further teaches an imaging device comprising a memory and a processor for executing a program for:

Determining if an appropriate print media is available in the imaging device to perform a particular imaging job based on the media parameter information (Biegelsen, col 5, ln 9-17, device determines whether image recording media in tray is identified as

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the selected type of image recording media. If identified media is correct type, media is pulled from tray and image is formed on the recording media).

Claims 2, 8, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Biegelsen et al. (US 6,335,084) in view of Ueda et al. (US 5,801,722) and further in view of Meunier et al. (US 6582138), hereafter referred to as Biegelsen, Ueda, and Meunier.

Regarding claim 2, which depends from claim 1, the combination of Biegelsen, Ueda, and Meunier teaches a method of sensing data from a sheet of print media comprising sensing a media marking on a face and an edge or print media, the media marking comprising media parameter information that corresponds to the sheet of print media, and configuring an imaging device based on the media parameter information to form an image on the sheet, as explained above in the rejection of claim 1. Additionally, Meunier discloses a visible ink-bled media mark on the edge of the media sheet used for encoding media parameters and identifying the document (Meunier, col 3, ln 3 and 4, also see figure 1, #12, edge marking is a barcode. See also col 12, ln 6-14, wherein the media mark is ink-bled). Additionally, the media parameter information (Meunier, col 12, ln 40-43, ink penetration measurements may be stored) may be printed on any surface of the paper, including the face (Meunier, col 13, ln 20-25).

Biegelsen, Ueda, and Meunier are combinable because they are from the same field of endeavor of managing media having information recorded thereon. At the time of the invention, it would have been obvious to a person of ordinary skill in the art

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combine the method of using the explicit ink-bled media marking of Meunier in combination with the previously taught media marking, sensing the media mark corresponding to the sheet media, and configuring an imaging device based on the media parameter information method of Biegelsen and Ueda as per the teaching of Meunier. The suggestion for doing so would be to facilitate the marking process by printing on the face of the paper and allowing the ink to bleed through to the edge (Meunier, col 12, ln 10-12), and the motivation would have been to imprint media marks to media after manufacturing with common programs and imaging devices (Meunier, col 12, ln 6-10). Therefore, it would have been obvious to combine Meunier with the aforementioned combination of Biegelsen and Ueda to obtain the invention as specified in claim 2.

Regarding claim 8, which depends from claim 7, claim 8 recites identical features as claim 2 except claim 8 is a computer readable medium claim. Thus, arguments similar to that presented above for claim 2 are equally applicable to claim 8.

Regarding claim 14, which depends from claim 13, the combination of Biegelsen, Ueda and Meunier further teaches an imaging device wherein the media marking is an ink-bled media marking (Meunier, col 3, ln 3 and 4, also see figure 1, #12, edge marking is a barcode. See also col 12, ln 6-14, wherein the media mark is ink-bled).

## Response to Arguments

Applicant's arguments, see pages 6-8, filed March 27, 2006, with respect to the rejection(s) of claim(s) 1-2, 5-8, 11-14, and 17-18 under 35 U.S.C. 103 have been fully

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considered and are persuasive. Therefore, the rejection has been withdrawn.

However, upon further consideration, a new ground(s) of rejection is made in view of Meunier et al.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dillon J. Murphy whose telephone number is (571) 272-5945. The examiner can normally be reached on M-F, 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly Williams can be reached on (571) 272-7471. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DJM

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